APPENDIX

```
input = 0;
            output = 1;
            for (i = 0; i < num inputs; i++){
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                 C[input][i] = input_capacity[i];
                  for (j = 0; j < num outputs; j++)
                       C[input][i] -= demanded rates[i][j];}
            for (j = 0; j < num outputs; j++){
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                 C[output][j] = output_capacity[j];
                  for (i = 0; i < num inputs; i++)
C[output][j] -= demanded rates[i][j];}
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            for (j = 0; j < num outputs; j++)
                 x[output][j] = 0.0;
            for (i = 0; i < num inputs; i++)
                  for (j = 0; j < num outputs; j++)
                       D[i][j] = desired rates[i][j];
            for (k = 1; k \le num global iterations; k++){
                  for (i = 0; i < num inputs; i++){
                       for (j = 0; j < num_outputs; j++){
                            w[j] = weights[i][j];
                            d[j] = D[i][j];
                  x[input][i] = dist(num_inputs, w, d, C[input][i],
            r);
                       if (k == num global iterations)
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                       for (j = 0; j < num outputs; j++)
                            requested rates[i][j] = r[j];
```

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for $(j = 0; j < num_outputs; j++){$

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for $(i = 0; i < num inputs; i++){$

x[output][j] = inf;

for (i = 0; i < num inputs; i++)

 $D[i][j] = r[i]; \} \} \}$

```
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w[i] = weights[i][j];

d[i] = requested_rates[i][j];}

dist(num_outputs, w, d, C[output][j], r);

for (i = 0; i < num_inputs; i++)

allocated_rates[i][j] = r[i];}</pre>
```

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